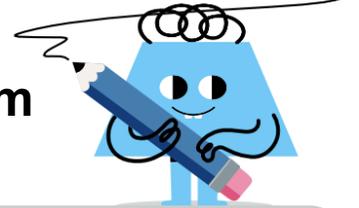




## Trigonometry - Calculating Angles from Ratios (Words to Arc Notation)



1 How would you calculate the angle using arc notation?

$\alpha$  has a sin of 0.259

A  $\alpha = \frac{1}{\sin^{-1}(0.259)}$

B  $\alpha = \sin(0.259) - 1$

C  $\alpha = \frac{1}{\sin(0.259)}$

D  $\alpha = \text{asin}(0.259)$

2 How would you calculate the angle using arc notation?

$\alpha$  has a tan of 0.577

A  $\alpha = \text{atan}(0.577)$

B  $\alpha = \frac{1}{\tan^{-1}(0.577)}$

C  $\alpha = \tan(0.577) - 1$

D  $\alpha = \frac{1}{\tan(0.577)}$

3 How would you calculate the angle using arc notation?

$\alpha$  has a tan of 0.7

A  $\alpha = \text{atan}(0.7)$

B  $\alpha = \frac{1}{\tan^{-1}(0.7)}$

C  $\alpha = \tan(0.7) - 1$

D  $\alpha = \frac{1}{\tan(0.7)}$

4 How would you calculate the angle using arc notation?

$\alpha$  has a tan of 1.192

A  $\alpha = \text{atan}(1.192)$

B  $\alpha = \tan(1.192) - 1$

C  $\alpha = \frac{1}{\text{atan}(1.192)}$

D  $\alpha = \frac{1}{\tan^{-1}(1.192)}$

5 How would you calculate the angle using arc notation?

$\alpha$  has a cos of 0.985

A  $\alpha = \cos(0.985) - 1$

B  $\alpha = \text{acos}(0.985)$

C  $\alpha = \frac{1}{\cos^{-1}(0.985)}$

D  $\alpha = \frac{1}{\cos(0.985)}$

6 How would you calculate the angle using arc notation?

$\alpha$  has a sin of 0.342

A  $\alpha = \frac{1}{\sin^{-1}(0.342)}$

B  $\alpha = \frac{1}{\sin(0.342)}$

C  $\alpha = \sin(0.342) - 1$

D  $\alpha = \text{asin}(0.342)$

7 How would you calculate the angle using arc notation?

$\alpha$  has a sin of 0.985

A  $\alpha = \sin(0.985) - 1$

B  $\alpha = \text{asin}(0.985)$

C  $\alpha = \frac{1}{\sin^{-1}(0.985)}$

D  $\alpha = \frac{1}{\sin(0.985)}$

8 How would you calculate the angle using arc notation?

$\alpha$  has a sin of 0.643

A  $\alpha = \frac{1}{\sin^{-1}(0.643)}$

B  $\alpha = \sin(0.643) - 1$

C  $\alpha = \frac{1}{\sin(0.643)}$

D  $\alpha = \text{asin}(0.643)$